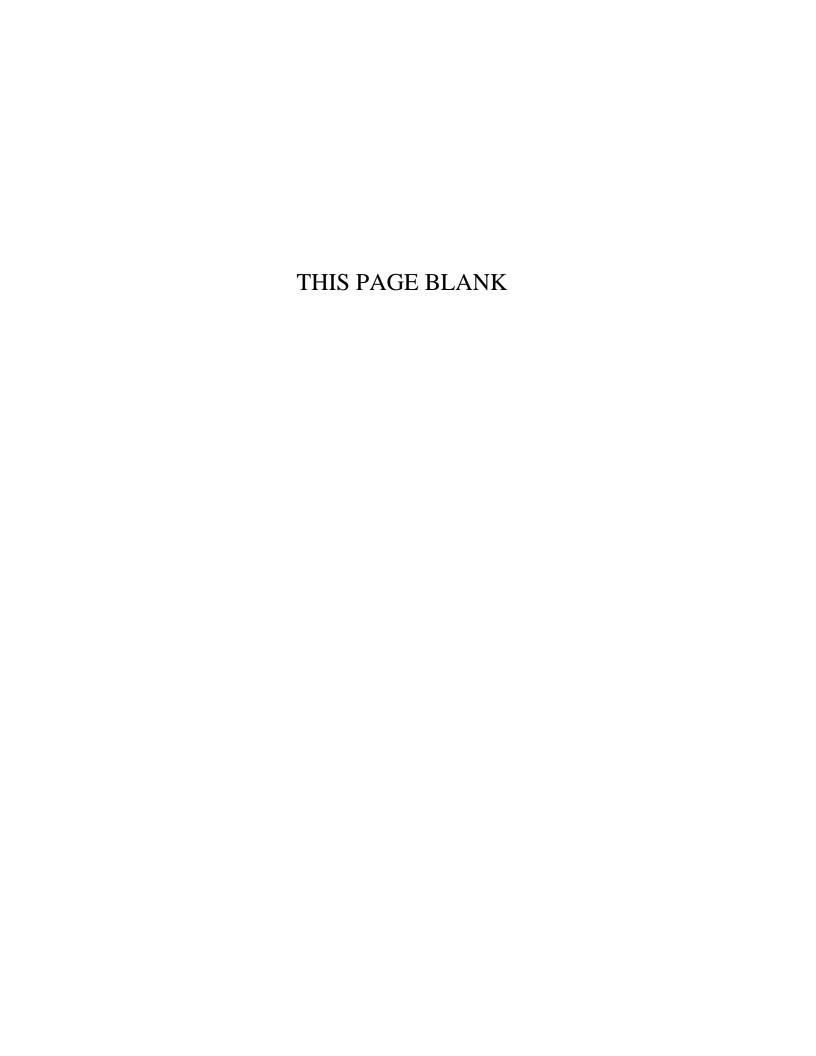
Appendix G Baseline Storm Water Awareness Survey





Michigan Department of Transportation: Employee Storm Water Awareness Survey

(Revised – February 18, 2005)

This is an anonymous survey intended to help develop a storm water education program for MDOT employees and contractors. Your answers will help to determine what storm water management topics to address in future educational materials and training programs for MDOT employees and contractors that perform job-related activities with the potential to affect the quality of storm water discharges. Your answers are strictly confidential and will not be used for any other purpose. Thank you in advance for your time to complete this survey.

A. Background Information

1.	Organizational Affiliation (Circle One): MDOT Employee Contractor
2.	Department/Division (if an MDOT contractor, list the MDOT Division you work with most often):
3.	Years of Experience with MDOT: 0-5 yrs 6-15 yrs 16-25 yrs more than 25 yrs
4.	Total Years of Work Experience:
5.	Civil Service Classification (if an MDOT Employee):
6.	Highest Level of Education (if not an MDOT Employee): High school/GED Associate's degree Bachelor's degree Graduate degree
7.	Geographic Area of Responsibility (select all those that apply): Statewide Southwest Region Lansing Central Office Grand Region Superior Region Bay Region Superior Region Metro Region North Region
В.	General Storm Water and Water Quality Questions Low High
1.	To what extent do you feel that water pollution is a problem in Michigan? Circle one 1 2 3 4 5
2.	Have you received any training on MDOT's storm water program? Yes No
3.	Do you know that MDOT has a Public Storm Water Web Site? Yes No
4.	If you answered "Yes" to number 3, how often have you visited the MDOT Public Storm Water Web Site in the past six months? (Check the one that best applies) Never Six to ten times So many times, I can't count them all.

5.	In your opinion, what is the most important thing MDOT should do to help protect water quality?				
6.	In your opinion, what is the most important thing that you can do as an MDOT employee or contractor to prevent storm water pollution?				
7.	What is the largest cause of water pollution in Michiga order of significance, with 1 being the most significant Agriculture	nt.) Urban storm water runoff			
	Sewage spills from wastewater	Industries			
	treatment plants	Contaminated sediments			
8.	Storm water runoff is rain and snowmelt conveyed by or lake untreated. Is this statement true or false?	<u> </u>			
9.	Which structures and features are part of MDOT's dra Catch basins Inlets Sidewalks Underdrains	inage system? (Check all those that apply): Roadside ditches in MDOT's ROW Culverts Don't know			
10	. What are common sources of pollutants that may affect system? (Check all those that apply):	ct storm water runoff in MDOT's drainage			
	Vehicle washing and maintenance activities Litter Material storage Material loading	 Spills Snow removal and deicing Construction activities Don't know 			
11	. Which of these found in or near an MDOT storm water indication of problems in the drainage system? (Check Water draining from outfalls during dry weather Rotten egg odor Staining on outlet pipe Oily sheen	The state of the s			
12	. Do you know that it is illegal to dump anything excep wash water, etc.) into a storm drain or gutter? Ye				
13	. Generally, to what extent are you unsure of the proper that you've encountered at work? Circle one	- · · · · · · · · · · · · · · · · · · ·			

14. If you had to clean up dirt and landscap you hose down the area into the nearest	_	
15. Do you know what a non-emergency st If "Yes", do you know who to report a to? Yes No If you answered "Yes," please list the to	work-related n	non-emergency storm water pollution problem
16. What type of work training is most effe effectiveness, with 1 being the most eff		(Rank top 3 work training types in order of
Class-room presentations	,	Field manual
Field trips		Video
On-line tutorials		Other:
17. What type of materials will help you to job? (Rank top 3 material types in order Newsletter articles Web site Poster E-mail		* *
 C. Specific Job Category Questions Please answer the questions under responsibilities. The three job category Maintenance. Job Category: Design 	one job cate	egory below that best applies to your job follows: Design, Construction, and
Have you used MDOT's Drainage Man	ual? 🔲 Ves [□ No
1. Have you used MDO1's Dramage Main	uai: ics [140
training.	effectiveness	of the selection(s) that best describes your
 Formal training session 	Circle one	Low - 1 2 3 4 5 - High
 Brief overview with supervisor 	Circle one	Low - 1 2 3 4 5 - High
• Read the Drainage Manual.	Circle one	Low - 1 2 3 4 5 - High Low - 1 2 3 4 5 - High
 3. In your experience, at what point in the initially considered? (Check the one that Project Scoping Preliminary Engineering Construction 		ct delivery process is storm water management (s.) Operation and Maintenance Other: Don't know
 4. Check the box that best represents a per Sand and stone bags Employee training A detention basin 	manent structu	ral best management practice (BMP). Street Sweeping Don't know

5.	What are the three most significant barriers/challenges to incorporating storm water pollution controls in the design of a project? (Rank top three barriers/challenges in order of significance, with 1 being the most significant barrier.)				
	Cost considerations Aesthetics				
	Land availability Maintenance issues				
	Public safety issues Other:				
	Special needs (e.g., impact to trout Don't Know				
	habitat)				
6.	Do MDOT project designs routinely include storm water pollution controls to address water				
	quality, as opposed to water quantity? Yes No Don't know If you answered "No," please explain.				
	Tyou answered Tto, pieuse explain.				
7.	Does MDOT design soil erosion and sedimentation controls so that they also function as permanent storm water pollution controls to address water quality? Yes No Don't know				
8.	What elements should a plan include to keep permanent MDOT storm water pollution controls working as intended over time? (Check all those that apply): Cost information Inspection schedules Maintenance schedules				
	Responsibilities chart Equipment needs Date of installation Don't know				
9.	Are plans for permanent MDOT storm water pollution controls routinely prepared as part of the design process? Yes No Don't know				
	bb Category: Construction Have you used MDOT's Soil Erosion and Sedimentation Control (SESC) Manual? Yes No				
2.	Have you attended SESC training?				
	• Overview internal to MDOT Circle one Low - 1 2 3 4 5 - High				
	• Read SESC Manual Circle one Low - 1 2 3 4 5 - High				
3.	Are you a certified storm water operator? Yes No				
4.	What are the signs that a soil erosion and sediment control is not effective? (Check all those that apply.)				
	Soil and mud on adjacent roadways Sagging silt fence				
	Full sediment traps and basins Blowing dirt or dust				
	Sediment flowing off-site Don't know				
5.	Have you ever identified a soil erosion and sediment control problem at a construction site? Yes No				
6.	If you answered "Yes" to number 5, did you report the problem? Yes No				

7.	lave you ever identified a problem with materials storage, equipment storage and maintenance, or vaste management at a construction site? Yes No					
8.	If you answered "Yes" to number 7, did you re	you answered "Yes" to number 7, did you report the problem? Yes No				
9.	How often are soil erosion and sediment control that apply.) Daily Weekly After major changes on the site		Cha Afte	inge er ev	of s	seasons significant rain event
10.	What have you found to be the most effective visite? (Check the one that most applies.) Complete project before the rainy seaso Maintain best management practices Limit the area disturbed Install best management practices prior	on			mer	nt pollution from a project
11.	What have you found to be the most effective visite? (Check the one that most applies.) Inspect contractor's equipment and fuel Discuss the importance of pollution pre Include a special provision telling the C Remind contractor of potential enforcer	storage ar vention of contractor v	ea ten wha			liment pollution from a projec
12.	To what extent would the following types of in water pollution prevention on a project site? C	ircle one n	uml	oer 1	or e	each item.
	• Checklist					5 - High
	Brochure Galacia Galacia GEGGM A SEGGM A SEGM A SEGGM A	Low - I	2	3	4	5 - High
	Condensed version of the SESC ManualPoster	Low - 1	2	3	4	5 High
	PosterPictures of ineffective BMPs	Low - 1	2	3	4	5 - High
		Low - 1				
	Other:					5 - High
Jo	b Category: Maintenance					
1.	Are MDOT's Maintenance Performance Standamaintenance activity procedural information?	•	_	•	sou	rce of information for
2.	If you answered "No" to number 1, please desc maintenance activities.	-		•	•	you receive information on
3.	Have you received training on maintenance cor Management Program internal training program		_	_ `	-	ADOT's Storm Water
4.	If you answered "Yes" to number 3, to what ex water pollution prevention techniques for main				_	

5.	Are you familiar with the procedures in your maintenance facility's Pollution Incidence Prevention Plan (PIPP)? Yes No
6.	Do you know where spill containment equipment is stored at your facility? Yes No
7.	Where is the best place to wash and service vehicles and equipment? (Check the one that best applies.) Outside near unprotected storm drain Inside with floor drain to storm sewer system Outside near a stream
8.	Where are vehicles and equipment washed at your facility? (check all those that apply): Inside with floor drain to sanitary sewer system Outside near unprotected storm drain Outside near protected storm drains Inside with floor drain to storm sewer Other:
9.	Do you know where the floor drains discharge to in your facility? \square Yes \square No
10.	On a scale of one to five, how conscientious do you feel the staff at your facility are about minimizing the exposure of potentially polluting materials and equipment to rain? 1 (very conscientious) 2 (conscientious) 5 (never conscientious) 3 (somewhat conscientious)
11.	What materials, if any, stored outside the facilities where you work do you feel have the most significant potential to contribute pollutants to storm water runoff?
12.	How often is your storage yard or maintenance facility swept? (Check the one that best applies.) Daily After loading and unloading Weekly Daily Other:
13.	Does your facility calibrate salt dispensers before deicing? Yes No Don't know
14.	If you conduct pesticide and fertilizer application activities, is your MDOT pesticide applicator certification training current? Yes No I do not conduct these activities.
15.	Do you conduct inspection and maintenance of structural storm water pollution controls? Yes No
16.	If you answered "Yes" to number 15, do you follow the associated maintenance plan for structural storm water pollution controls prepared during the preliminary engineering phase of the project? Yes No
17.	If you answered "No" to number 16, please explain why you do not follow the associated maintenance plan for storm water pollution controls.